

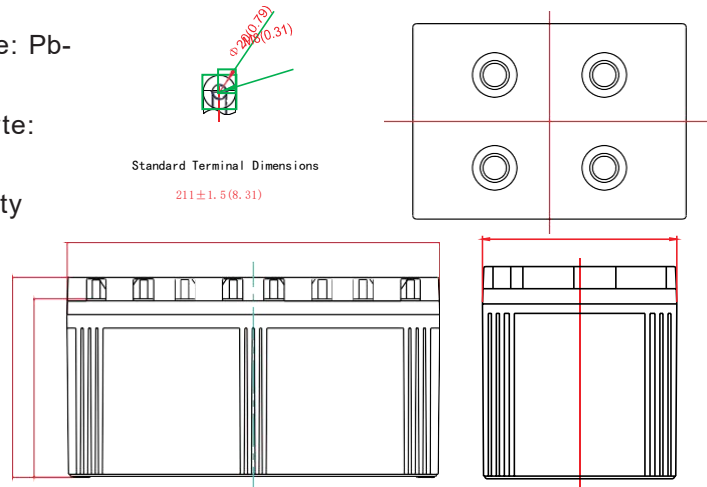


SILICON BATTERY

Outer Dimension

General Feature

- High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- Patented Silicate Compound Electrolyte: zero acid vapor, environment friendly
- High Energy Density and Power Density
- Excellent Charge Acceptance Ability
- Strong High and Low Temperature Performance
- Optimized Capability of instant High-current Discharging
- Excellent Deep Discharge Cycle Life
- The Designed Life is 15 Years



Specification

Normal Voltage	2V
Capacity	3000Ah (10hr, 1.80V, 25°C)
Weight	Approx. 172kg
Internal Resistance	0.10mΩ
Operating Temperature Range	Discharging temperature: -40°C~60°C
	Charging temperature: -40°C~60°C
	Storage temperature: -40°C~50°C
Recommended Operating Temperature	15°C~25°C
Floating Charging Voltage	2. 25V (25°C)
Max Charging Current (Recommended)	900A
Equalization Charging Voltage	2. 35V (25°C)
Self Discharging	Residual Capacity is more than 90% after 90 days @25°C
Terminal	M8
Contain Materials	ABS

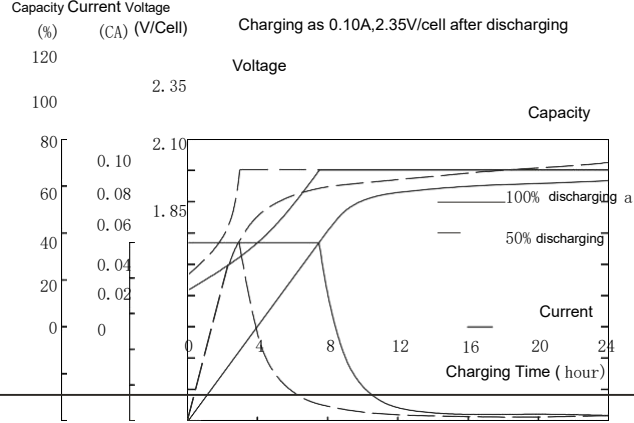
Constant Current Discharge Characteristics Unit: (A, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	5000	4187	3101	1961	1155	848	575	396	329	149
1.65V	4619	3903	2970	1859	1128	827	561	390	326	147
1.70V	4317	3660	2733	1776	1088	803	557	383	320	147
1.75V	4115	3465	2540	1694	1049	779	540	378	315	146
1.80V	3957	3267	2376	1586	1004	755	528	372	309	143
1.85V	3504	2897	2118	1431	906	716	510	360	300	138
1.90V	3014	2450	1818	1271	849	671	491	347	290	135

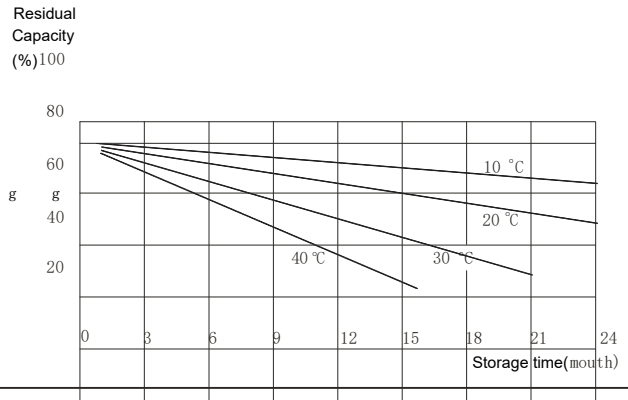
Constant Power Discharge Characteristics Unit:(W,25 °C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	8499	7118	5669	4040	2606	1931	1275	851	695	314
1.65V	8084	6831	5361	3732	2391	1812	1230	819	678	308
1.70V	7772	6588	5228	3554	2322	1748	1203	803	659	302
1.75V	7529	6341	5049	3416	2240	1683	1173	773	648	299
1.80V	7322	6044	4871	3336	2198	1623	1140	753	639	294
1.85V	6659	5505	4332	3035	2019	1538	1088	728	614	282
1.90V	5876	4778	3653	2613	1752	1425	1016	681	570	264

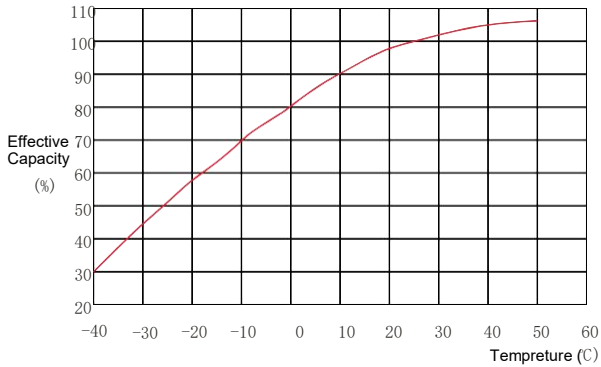
Charging Characteristics Curves



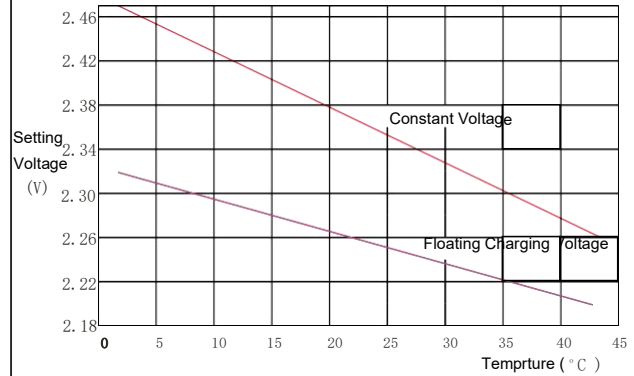
Self-Discharge Characteristics



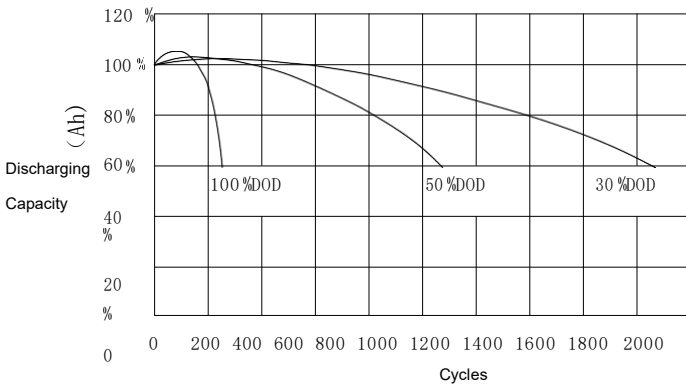
Temperature Vs Capacity



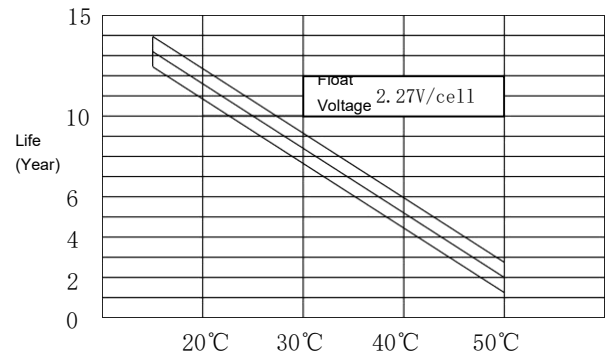
Temperature Vs Voltage Settings



Recycle Life



Temperature VS Float Life



Charging System

Application Type	Charging Voltage (V)			Max Current (A)
	Temperature (°C)	Setting Voltage	TEMPCO	
Cycle Use	25	2.35	-5mV/°C/pc	0.25C
Float Use	25	2.25	-3mV/°C/pc	

Relationship between Discharging Current and Discharging Voltage

Discharge Rate	1hr	3hr	8hr	10hr
Cut-Off Voltage (V)	1.75	1.80	1.80	1.80
Discharging Current (A)	0.55C	0.25C	0.12C	0.1C

